Application No. 10/615,761 Amendment dated December 1, 2005 Reply to Office Action of September 2, 2005 Docket No.: 08211/0200236-US0

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A capsule endoscope (CE) having a field of view that may be dynamically adjusted, comprising:

an illuminator configured to produce illumination;

an optical device configured to transmit the illumination onto a lining of a GI tract;

a sensor that is arranged to sense a reflected signal from the lining in response to the illumination and to provide signals relating to the reflected signal; and

a control block coupled to the illuminator that is configured to dynamically adjust the field of view of the illumination;

wherein the sensor is curved to a contour and includes:

a support having sufficient flexibility such that it is formed to the

contour;

a substrate including the sensor; the substrate being formed sufficiently thin so that it is shaped to the contour; and

the substrate coupled with the support such that the combination is formed to the contour.

- 2. (Canceled)
- 3. (Original) The CE of Claim 1, wherein the optical device comprises a scanner configured to scan the illumination onto the lining.
- 4. (Original) The CE of Claim 3, wherein the scanner comprises a MEMS scanner.
- 5. (Original) The CE of Claim 3, wherein the optical device comprises a lenslet array configured to focus the illumination.
- 6. (Original) The CE of Claim 1, wherein the illuminator comprises an optical illuminator.

Application No. 10/615,761 Amendment dated December 1, 2005 Reply to Office Action of September 2, 2005

- Docket No.: 08211/0200236-US0
- 7. (Currently Amended) The CE of Claim 1, wherein the illuminator comprises an emitter for an acoustical signal illuminator.
- 8. (Original) The CE of Claim 1, further comprising a communication interface that is arranged to transmit and receive signals relating to the lining over a wireless communications link.
- 9. (Original) The CE of Claim 2, wherein the support and substrate are arranged inside a protective housing.
- 10. (Original) The CE of Claim 9, wherein the protective housing includes a portion of an optically transmissive surface.
- 11. (Original) The CE of Claim 10, further comprising a lenslet covering the sensor.
- 12. (Currently Amended) The CE of Claim [[11]]9, wherein the substrate includes a silicon material.
- 13. (Currently Amended) A method for dynamically adjusting a field of view for a CE having sensors that may be formed to follow a contour associated with the CE; comprising:

producing illumination;

transmitting the illumination onto a lining of a GI tract;

sensing a reflected signal from the lining in response to the illumination and providing signals relating to the reflected signal; and

dynamically adjusting the field of view;

forming the sensors; wherein forming the sensors comprises;

bulk removing substrate material from the back side of a substrate; and

Application No. 10/615,761 Amendment dated December 1, 2005 Reply to Office Action of September 2, 2005 Docket No.: 08211/0200236-US0

precision removing substrate material from the back side of the substrate until the substrate has a desired thickness that enables the sensors formed on the substrate to be flexed and shaped into a curved configuration.

- 14. (Canceled)
- 15. (Original) The method of Claim 13, wherein transmitting the illumination onto the lining of a GI tract further comprise scanning the illumination onto the lining.
- 16. (Original) The method of Claim 15, wherein scanning the illumination further comprises using a MEMS scanner.
- 17. (Original) The method of Claim 16, further comprising focusing the illumination using a lenslet array.
- 18. (Original) The method of Claim 13, wherein producing the illumination further comprises producing the illumination using an optical illuminator.
- 19. (Original) The method of Claim 13, wherein producing the illumination further comprises producing the illumination using an acoustical illuminator.
- 20. (Original) The method of Claim 13, further comprising transmitting and receiving signals relating to the lining over a wireless communications link.
- 21. (Original) The method of Claim 14, further comprising coupling the substrate to a support.
- 22. (Original) The method of Claim 21, wherein the support is selected from a flexible support and a rigid support.

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Docket No.: 08211/0200236-US0

Application No. 10/615,761 Amendment dated December 1, 2005 Reply to Office Action of September 2, 2005

- 23. (Canceled)
- 24. (Canceled)
- (New) A capsule endoscope (CE) having a field of view that is dynamically adjustable, 25. comprising:

an illuminator configured to produce illumination;

a device that is adapted to transmit the illumination onto a lining of a gastrointestinal tract;

a sensor that is arranged to sense a reflected signal from the lining in response to the

illumination and to provide at least one signal regarding the reflected signal; and

a control for the sensor that is configured to dynamically adjust the field of view of the sensor based in part on at least one subset of the sensor that senses at least a portion of the reflected signal, wherein the field of view is dynamically adjusted by controlling the operation of the subset of the sensor.

(New) The CE of Claim 25, wherein the sensor is curved to a contour and includes: 26. a support having sufficient flexibility such that it is formed to the contour; and

a substrate including the sensor, wherein the substrate is sufficiently thin so that it is shaped to the contour.